

Title (en)
A bellows like collapsible clip

Title (de)
Zusammenfalt und -druckbare Klammer

Title (fr)
Bague soufflet serrante

Publication
EP 2014966 A3 20100714 (EN)

Application
EP 08157882 A 20080609

Priority
GB 0711557 A 20070615

Abstract (en)
[origin: EP2014966A2] A tubular clip (1) for securing a sleeve (3) to the body of a piezoelectric actuator (5) in an actuator assembly. In use, the wall of the clip (1) has a plurality of corrugations (7). The pitch of the corrugations is variable in the direction of the longitudinal axis of the clip (1). The clip (1) is configurable into an unfitted configuration and into a fitted configuration and in the fitted configuration the minimum transverse internal separation of the clip walls is less than in the unfitted configuration.

IPC 8 full level
A44B 99/00 (2010.01); **F16L 33/02** (2006.01); **H10N 30/50** (2023.01); **F16L 33/03** (2006.01); **H10N 30/03** (2023.01)

CPC (source: EP US)
F16L 33/03 (2013.01 - EP US); **Y10T 24/44** (2015.01 - EP US); **Y10T 29/42** (2015.01 - EP US); **Y10T 29/49911** (2015.01 - EP US); **Y10T 29/49913** (2015.01 - EP US)

Citation (search report)

- [X] DE 19533553 A1 19970313 - RASMUSSEN GMBH [DE]
- [X] DE 10061425 A1 20020613 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] EP 0131874 A1 19850123 - PIRELLI [IT]
- [A] EP 1783842 A1 20070509 - DELPHI TECH INC [US]

Cited by
EP2372139A1; EP2343746A1; WO2011082843A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2014966 A2 20090114; **EP 2014966 A3 20100714**; **EP 2014966 B1 20131023**; GB 0711557 D0 20070725; JP 2009044132 A 20090226; JP 5022996 B2 20120912; US 2008307616 A1 20081218; US 8973227 B2 20150310

DOCDB simple family (application)
EP 08157882 A 20080609; GB 0711557 A 20070615; JP 2008153642 A 20080612; US 15785908 A 20080613